SRM 06/12

kV dependent max mA values for exposure times ≤ 100ms in combination with Optimus 80kW

kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]	kV	SF [µA]	LF [µA]
40	250000	659000	70	485110	1100000	**100**	**350000**	**800000**	130	269230	615384
41	257837	673775	71	492957	1100000	101	346534	792079	131	267175	610687
42	265674	688550	72	486111	1100000	102	343137	784313	132	265151	606060
43	273511	703325	73	479452	1095890	103	339805	776699	133	263157	601503
44	281348	718100	74	472972	1081081	104	336538	769230	134	261194	597014
45	289185	732875	75	466666	1066666	105	333333	761904	135	259259	592592
46	297022	747650	76	460526	1142857	106	330188	754716	136	257352	588235
47	304859	762425	77	454545	1038961	107	327102	747663	137	255474	583941
48	312696	777200	78	448717	1025641	108	324074	740740	138	253623	579710
49	320533	791975	79	443037	1012658	109	321100	733944	139	251798	575539
50	328370	806750	80	437500	1000000	110	318181	727272	140	250000	517142
51	336207	821525	81	432098	987654	111	315315	720720	141	248226	567375
52	344044	836300	82	426829	975609	112	312500	714285	142	246478	563380
53	351881	851075	83	421686	963855	113	309734	707964	143	244755	559440
54	359718	865850	84	416666	952380	114	307017	701754	144	243055	555555
55	367555	880625	85	411764	941176	115	304347	695652	145	241379	551724
56	375392	895400	86	406976	930232	116	301724	689655	146	239726	547945
57	383229	910175	87	402298	919540	117	299145	683760	147	238095	544217
58	391066	924950	88	397727	909090	118	296610	677966	148	236486	540540
59	398903	939725	89	393258	898876	119	294117	672268	149	234899	536912
60	406740	954500	90	388888	888888	120	291666	666666	150	233333	533333
61	414577	969275	91	384615	879120	121	289256	667757			
	422414	984050	92	380434	869565	122	286885	655737			
	430251	998825	93	376344	860215	123	284552	650406			
	438088	1013600	94	372340	851063	124	282258	645161			
	445925	1028375	95	368421	842105	125	280000	640000			
	453762	1043150	96	364583	833333	126	277777	634920			
	461599	1057925	97	360824	824742	127	275590	629921			
	469436	1072700	98	357142	816326	128	273437	625000			
	477273	1087475	99	353535	808080	129	271317	620155			

These are the default values of the tube data file TUBE_R2.TDL or TUBE_R3.TDL.
Typically there are no changes after adaptation except there are reductions due to the max generator power (Optimus 50kW = 650mA max) or if the filament does not have its full emission anymore (e.g. from shorted filament loops).
The red marked emission current values (at 71kV SF and 70kV LF) are the max emission currents at a kV value from which on the filament current can be reduced to achieve its max load performance.